

ORACLE
File

19 August 1974

MEMORANDUM FOR: All Participants in 29th ORACLE Management Meeting

SUBJECT : Release 1 Cost and Schedule Considerations

STATINTL 1. During the 29 August meeting, scheduled for 1000 in 2E23, with [REDACTED] I feel that OJCS should have an Office position on how to implement the Release 1 ORACLE System. Included in this memorandum are items that I feel should be considered.

STATINTL 2. VM Implementation Schedule - Very little work on the VM design has been accomplished during the past four or five months. Most all [REDACTED] effort has gone into the batch interface. During my last visit to [REDACTED] they felt that the earliest they could start VM implementation was March 75 with current manpower. I told them this was unsatisfactory.

STATINTL [REDACTED] who did all of the design, is employed by [REDACTED] and is out in [REDACTED] until the Initial System is shipped. He is doing the main implementation of the batch interface now and [REDACTED] wants to wait until that is complete before they start on VM.

STATINTL My position is that [REDACTED] can not add new people at this time who will be able to get the VM interface accomplished much faster, and there is no real requirement for the VM interface in April. If we have to decide, I think we should allow [REDACTED] to start when they want and with whom they want and insure us of the schedule impact. If we force them to speed up the VM interface now, it will just slip the batch interface - there is a limited amount of work that can be accomplished by a limited number of people.

STATINTL 3. Personnel - [REDACTED] is currently three under what they think they should be and possibly four or five under what they really should be. They are interviewing many people, but are much like SED in that they are not finding the exact types they want. The people they have are excellent. SED currently has [REDACTED] working almost full time on the project. Most of the OS/MVT interface is delivered. The rest, mods to OPEN and CLOSE, will be delivered in September. It appears that ASP 3.1 is going to slip enough so that we won't want to test it in November.

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This will mean that [REDACTED] work will continue longer than expected, but probably not at the same intensity. [REDACTED] and the VM interface will depend on the [REDACTED] schedules. If [REDACTED] does not start the interface until March, it is probably unwise to have Eric continue his portion of the VM interface until [REDACTED] starts up again.

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4. Hardware Schedules - [REDACTED] may feel that they can not get the hardware finished in time to ship in December. The tape dubbing feature, (required for dispersal and tape to tape copy) can not be tested until two data channels are complete and this is in September sometime. I have informed [REDACTED] that any further delays in the shipment schedule must result in a program slip, i.e., if shipment slips into late January, the program slips into May. I feel that the real schedule problem is and always will be software, but [REDACTED] may not want to admit this.

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5. Software Problems - [REDACTED] will claim that the current software in Release 1 is much larger than any of us ever realized. I think that it is not. [REDACTED] might not have realized the size, but I think some of us did. The current design does not have anything that the proposal or RFP did not call for. The security profile system is somewhat more work than the original proposal, but security was the number one item in the RFP. The original proposal called for the directory to be much like the OS catalog, and we requested a change to a directory using a hashing technique. I do not believe that the amount of work to implement either one is much different, but I am sure that [REDACTED] feels there is more work involved.

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I feel that we are developing a very large system and as such there is a lot of work that has to be accomplished. Most of what we are doing is essential to install an operational system, and is not very exotic.

6. Summary - OJCS needs to decide on the impact of a one to two month slip in the program due to VM, or hardware slips at the [REDACTED] end. OJCS needs to make trade-offs involving personnel in SED between now and July 75. OJCS needs to convince itself that [REDACTED] is where they say they are and that they can get to where they say they are going. The 29 August meeting is the time to do that. [REDACTED] responds much better to management than they do to members of the MSSB. If [REDACTED] proposes

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any cost or schedule changes, OJCS management must satisfy themselves that the changes are valid and what to do if they are not. Any suggestions for the meeting format or content should be sent or phoned to me as soon as possible.



STATINTL

Chief,
Mass Storage System Branch

Copy to:

DD/OJCS
C/PS/OJCS
C/SED/OJCS
DC/SED/OJCS
EO/SED/OJCS
C/SP&MS/SED/OJCS

/USD

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C/OD/OJCS

DD/OJCS

/SED/OJCS

/ED/OJCS

STATINTL

ORACLE Notebook

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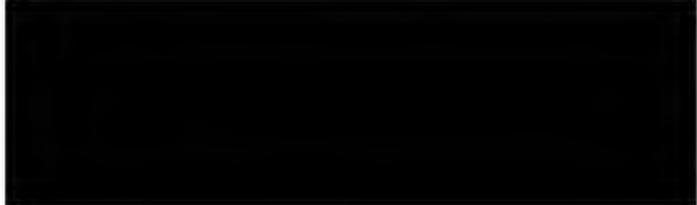
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TMS 2

NINTH TECHNICAL PROGRESS REPORT

August 15, 1974

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TMS 2

TECHNICAL PROGRESS REPORT

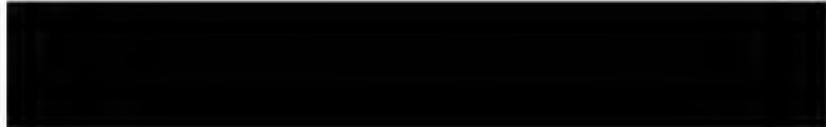
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Director, OJCS

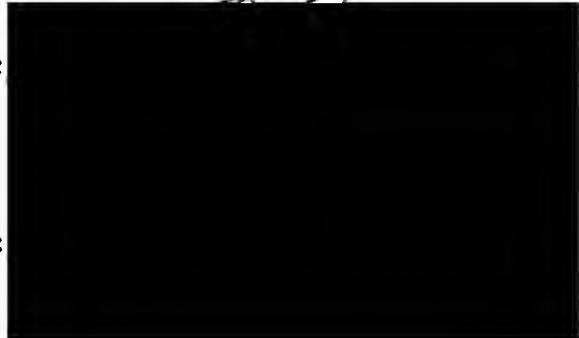
Central Intelligence Agency
Washington, D.C. 20505

August 15, 1974

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Prepared by:

Approved by:

I. INTRODUCTION/SUMMARY

This is the TMS 2 Monthly Technical Progress Report for July 1974.

Four (4) customer review meetings were held at [REDACTED] in July, as follows:

- 1) Completion of Annual Review carryover from June 29 through July 5, 1974. Major events and action items of the review are discussed further in Section II below and Attachment 1 respectively.
- 2) [REDACTED] Deputy Chief OJCS for a TMS 2 Project Review, July 10, 1974.
- 3) Installation/Facilities Conference TMS 2, Room 1D1605, Air Compressor and Vacuum Blower System, July 25, 1974.
- 4) System Specification, Pre-Shipment Acceptance Test Document and Open Contract Changes Review, July 30 through August 6, 1974.

The installation of the prototype TMS System at [REDACTED] Corporate Computer Center has been rescheduled from the week of August 5th to the week of August 26th, based on:

- 1) Best current information on completion of facilities preparation in [REDACTED], and
- 2) Hardware and software integration of the first half of the TMS 2 Initial System at [REDACTED]

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II. SOFTWARE

The annual review was held June 29th through July 3rd at the [REDACTED] facility. The status of the software development was presented and the Release 1 software requirements were discussed with the Agency representatives. It was agreed among all parties that a TMS 2 System Specification in addition to a Release 1 Software Specification was needed. The content of the System Specification was agreed upon during the meeting and work was started on a draft of the System Specification during July for review with Agency representatives during the last week in July.

Since the annual review, JOBEXEC, DMS, and SCPOS have been integrated and are ready for the August 5th integration with SCP2. SCP2 (DFT) and EDCP have encountered some problems and are behind schedule for the August 5th integration.

TDIO, TDIF, DFT, JOBEXEC, DMS, SCPOS Coding Conventions, SAVREQ, RESREQ, ENQ/DEQ, EDV, Core Management, WDP, WTD/WTDR, SCPOS Error Processing and Dumps, I/O and EDIF Handlers, and IPL design have been documented and edited and are in for typing. JOBEXEC, DMS, and SCPOS Error Processing and Dumps documentation will be distributed next month.

III. HARDWARE

Hardware completion and development progress for the Initial System is as follows:

A. DSS

1) First Half

Stand-alone and integrated checkout of the Dual Transport Module, Transport Driver and Data Channel are complete except for the Data Interface Buffer of the Data Channel which is scheduled for early August completion. Subassembly shortages are down to about 10 items which are not expected to impact checkout activities.

2) Second Half

TMS Department checkout of Dual Transport Module #2 and Transport Driver #2 are approximately 50% and 60% complete respectively. Final assembly of Data Channel #2 is in process in Manufacturing. The equipment was delayed due to a shortage of several PC cards and in process manufacturing rework to correct errors discovered by TMS Dept. in checkout of Data Channel #1. Completion and delivery of the Data Channel #2 TMS is scheduled for mid-August 1974 with no impact on final delivery schedule.

B. CCS

1) First Half

a) EDCP - DEC equipment, less the DALLB interface units and the TCIF has been checked out complete with an interim configuration CHSIM. Completion of the deliverable TCIF has been delayed for numerous backplane wiring errors which are currently being debugged. This is the pacing item in completion of the first half of the Initial System which is targeted for completion prior to the prototype equipment move to [redacted]

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b) SCP - DEC equipment, less the DALLB interface units, prototype TDIF (less display panel) and interim configuration channel simulator are checked out complete. The TDIF LED manual control panel design has been completed and will be backfitted in completed units.

2) Second Half

- a) EDCP - TCIF wire wrap cards in rework scheduled for completion and testing in September. A final configuration CHSIM for this unit is scheduled for delivery to [REDACTED] during the week of August 26th.
- b) SCP - TDIF cards are built and checked out and fitting with display panel is under way. CHSIM for this equipment is scheduled for early September.

IV. MANUFACTURING - Second Increment Hardware and Initial System Spares

Purchase Orders have been placed for approximately 90% of the required hardware. Balance of orders are in process. Of the four (4) long lead items previously discussed as returned for engineering review, one (1) has been redesigned and released for procurement. The remaining three (3) items are in process of redesign to specify an item with better delivery.

V. SCHEDULES

Based on the discussion in Item III above, it is apparent that progress on the first half of the Initial System is well along and should be functionally complete by mid-August. This will enable hardware and software development to continue in [REDACTED] when the Prototype System is installed in the [REDACTED] STATINTL [REDACTED] during the week of August 26th.

VI. PROBLEMS

Based on preliminary information, it appears that the dual density 3330 disk units to be used by the Agency could have a TMS 2 program impact. The technique for achieving dual density implemented by Control Data appears to be based on two logical disks per physical disk. The technique for achieving dual density in the Control Data disks is not compatible with [redacted] original STATINTL understandings and cannot be supported without additional development.

VII. ACTION ITEMS

Action items change sheets are attached.

ACTION ITEMSINDEX

<u>NO.</u>	<u>ITEM TITLE</u>	<u>DATE CLOSED</u>
1	Host Messages Format and List	2/25/74
2	Design Considerations Affecting User	4/8/74
3	Action Item Notebook	5/1/74
4	Dummy Data Set Names	7/4/74
5	Recovery Problem List	5/1/74
6	Review of Design Problems and Requirements	5/16/74
7	List of MIS Requirements	7/4/74
8	Software Documentation Plan	5/16/74
9	Time Plan for Major Software Specifications and Requirements	5/16/74
10	Save/No-Save with Respect to Scratching P-Spaces	8/7/74
11	Work Management Error Transmission to Virtual Machines	8/7/74
12	Hot-file Backup	5/16/74
13	SCP Crash Message Traffic and CP Poll for Backup	3/5/74
14	Startup Parameter and Default Guidelines	7/4/74
15	I/O Operation Timeout	3/5/74
16	Addressability Plan for Application Program Larger than 32K	5/16/74
17	System Overload Plan	7/4/74
18	Action Item List	5/16/74
19	Read-Share and Write-Share Allocation	8/7/74
20	Read-Share vs Write-Share Definition	8/7/74
21	Timing for Dependent Jobs Generating New Data Sets	5/16/74
22	Restriction on Absolute Referencing of Generations within New Generation Data Groups	5/16/74
23	Data Set Availability after Job Bind but before Job Start	
24	ORACLE Allocation Control of New Large Files	7/4/74
25	Rename Large Files and Small Files	
26	UNIT=ORACLE, DISP=(NEW,DELETE,DELETE)	6/6/74
27	JOBEXEC Input Validation Prior to Setup Message	3/5/74
28	New Data Set Job Abort	7/4/74
29	Utility Program Definitions	5/16/74
30	Job Startup Message for OS/ASP Executions	3/5/74
31	DMS	5/16/74
32	RBA Function	5/16/74
33	Data Set, File, Subfile Organization	5/16/74
34	Government Requirements for DMS	5/16/74
35	ASCEND and DESCEND Break-in to Support CP Performance	7/4/74
36	Expiration Dates on Data Sets	7/4/74
37	Government Requirements for File Management Utilities	5/16/74
38	EDCP IPL	3/5/74
39	EDCP Dump	5/16/74
40	Objectives for DMS, MIS, Recovery, Security, File Management	
41	Security-Related Default Non-Sensitive Group	5/17/74
42	Changing of Security Profiles	5/17/74
43	ASP Operator	
44	Archiving Facility in Release 1	7/4/74
45	Recovery from Broken Tape	

<u>NO.</u>	<u>ITEM TITLE</u>	<u>DATE CLOSED</u>
46	Storing DSDB on TBMTAPE	7/3/74
47	Erase Errors - LOGTAPE	5/17/74
48	LOGTAPE Dispersal	
49	Utility for Renaming Datasets	7/3/74
50	CP Backup Procedure - re P-Space	
51	Read-only Option for Security Profile Parameters	
52	Graceful Failure	5/17/74
53	Hardware for Backup	
54	Backup - Disk Allocation Tables	
55	Verifying MFD Validity	
56	I/O on Private Packs	
57	CHECKSUM on TTY Communication Link	
58	VM Schedules	
59	MIS Contents	
60	Performance Monitoring	
61	Data Set Activity Requirements	
62	Hashing Algorithms	
63	GDG Support	
64	Expanded Hardware Complex	
65	Tally	
66	GDG's	
67	LOGTAPE Performance	

ACTION ITEM TITLE: VM Schedules

Initiated Approved For Release 2001/09/04 : CIA-RDP83T00573R000500040009-7
Date Initiated: 6/29-7/3/74

NO. 58 Brief Description: Government requires VM Schedules.

STATINTL

Responsibility: [REDACTED] - by Sept. 1, 1974

Action Taken:

Date _____

By _____

Description of:

Resolution:

ACTION ITEM TITLE: MIS Contents

Approved For Release 2001/09/04 : CIA-RDP83T00573R000500040009-7

Initiated by [redacted] Date Initiated: 6/29-7/3/74

STATINTL
NO. 59 Brief Description: [redacted] and Government should agree on
MIS contents by July 19th.

STATINTL
Responsibility: [redacted] and Govt. - 19 July 74

Action Taken:

Date _____

By _____

Description of:

Resolution:

ACTION ITEM TITLE Performance Monitoring

Approved For Release 2001/09/04 : CIA-RDP83T00573R000500040009-7
Initiated by: Govt at Yearly Review MEG
Date Initiated: 6/29-7/3/74

NO. 60 Brief Description: Can a Delta Data Terminal be used as
an output only display for performance monitoring?

"STATINTL
Responsibility: [REDACTED] - Sept 1, 1974

Action Taken:

Date _____

By _____

Description of:

Resolution:

ACTION ITEM TITLE: Data Set Activity Requirements

Initiated Approved For Release 2001/09/04 : CIA-RDP83T00573R000500040009-7

Date Initiated: 6/29-7/3/74

NO. 61 Brief Description: Supply list of Data Set Activity
STATINTL
requirements to [REDACTED] (Govt) by 31 August 1974.

Responsibility: STATINTL [REDACTED] by 31 Aug 74

Action Taken:

Date _____

By _____

Description of:

Resolution:

ACTION ITEM TITL Hashing Algorithms
Approved For Release 2001/09/04 : CIA-RDP83T00573R000500040009-7

Initiated by: Govt at Yearly Review Mtg
Date Initiated: 6/29-7/3/74

NO. 62 Brief Description: Furnish hashing algorithms to D.
STATINTL
[REDACTED] Govt), by 31 Aug 74. He will evaluate and
report distribution.

STATINTL
Responsibility: [REDACTED] - by 31 Aug 74

Action Taken:

Date _____

By _____

Description of:

Resolution:

ACTION ITEM TITLE GDG Support

Approved For Release 2001/09/04 : CIA-RDP83T00573R000500040009-7

Initiated by: Govt at Yearly Review Mtg

Date Initiated: 6/29--7/3/74

NO. 63 Brief Description: Define Generation Data Group Support

Limitations.

STATINTL

Responsibility: [REDACTED] - As soon as possible

Action Taken:

Date _____

By _____

Description of:

Resolution:

ACTION ITEM TITLE Expanded Hardware Comp1 ✓
Approved For Release 2001/09/04 : CIA-RDP83T00573R000500040009-7
Initiated by: Govt at Yearly Review Mtg
Date Initiated: 6/29-7/3/74

NO. 64 Brief Description: More input lines to System.
Govt wants larger hardware complex and would like to
know the cost of supporting it on TMS2.

Responsibility: STATINTL
[REDACTED] - by 1 Sept 74

Action Taken:

Date _____

By _____

Description of:

Resolution:

ACTION ITEM TITLE Tally
Approved For Release 2001/09/04 : CIA-RDP83T00573R000500040009-7
Initiated by: Govt at Yearly Review Mtg
Date Initiated: 6/29-7/3/74

NO. 65 Brief Description: Whither Tally? --

- What are contents?
- Under tape dubbing

Responsibility: STATINTL [REDACTED] by 1 Sept 74

Action Taken:

Date _____

By _____

Description of:

Resolution:

ACTION ITEM TITLE: GDG's

Approved For Release 2001/09/04 : CIA-RDP83T00573R000500040009-7
Initiated by [redacted] Attendees at Yearly Review Mtg
Date Initiated: 6/29-7/3/74

NO. 66 Brief Description: Must be able to create GDG's from host.

STATINTL
Responsibility: [redacted] - As soon as possible

Action Taken:

Date _____

By _____

Description of:

Resolution:

ACTION ITEM TITLE: LOGTAPE Performance

Approved For Release 2001/09/04 : CIA-RDP83T00573R000500040009-7

Initiated by: Attendees at Yearly Review Mtg.

Date Initiated: 6/29-7/3/74

NO. 67 Brief Description: What are the performance considera-
tions of LOGTAPE?

Responsibility: STATINTL
[REDACTED] - by 1 Sept 74

Action Taken:

Date _____

By _____

Description of:

Resolution:

STATINTL

Approved For Release 2001/09/04 : CIA-RDP83T00573R000500040009-7

Approved For Release 2001/09/04 : CIA-RDP83T00573R000500040009-7